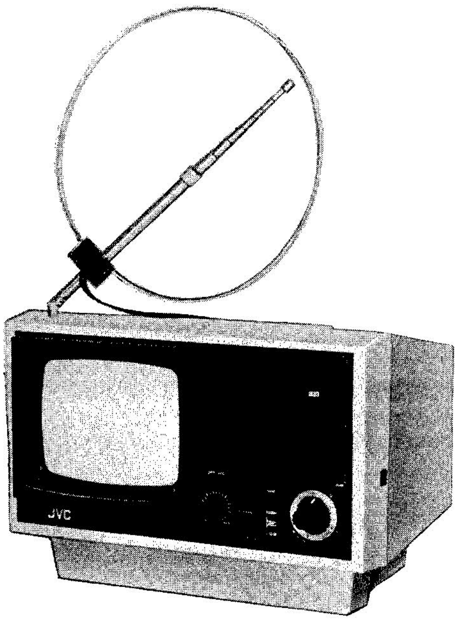
JVC

SERVICE MANUAL

MODEL
3040EUC

B/W PORTABLE
TELEVISION RECEIVER



No. 3273
November 1977

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Specifications

DIMENSIONS: Height 20.0cm, Depth 25.0cm, Width 27.5cm
Weight: 3.2kg (Dry-cells excluded)

Receiving Channels:	Channels 2 thru 13 VHF, 21 thru 69 UHF, CCIR standard (S. IF 5.5MHz & 6.5MHz)
Antenna VHF:	Built-in VHF antenna or external antenna
UHF:	Loop antenna or external antenna
Antenna Input Impedance:	Balanced 300Ω (Both VHF and UHF)
Power Input Rating:	AC 220V, 50Hz or DC 12V
Power Consumptions:	AC 12W, DC 6.5W
Fuse Device:	1A
Speaker:	7.7cm Round type, voice coil impedance 32Ω
Audio Power Output (Max.):	250mW
Picture Tube:	140BLB4(M)
Transistors:	26 pcs
Diodes:	26 pcs
IC:	1 pc
Cabinet:	Plastics

Controls

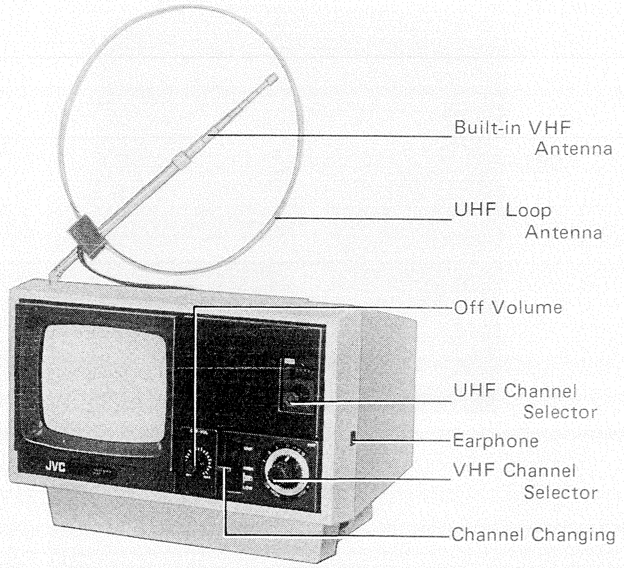

Built-in VHF Antenna
UHF Loop Antenna
Off Volume
UHF Channel Selector
Earphone
VHF Channel Selector
Channel Changing
JVC

Fig. 1

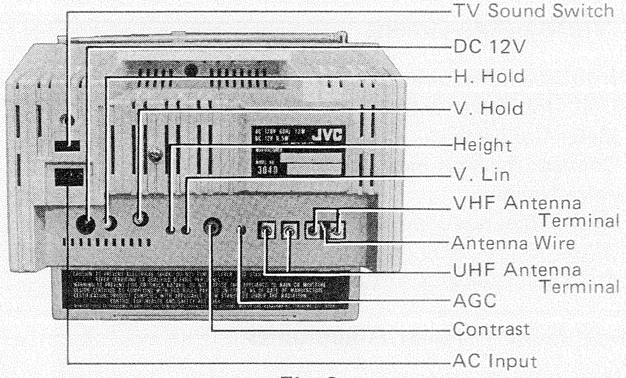

TV Sound Switch
DC 12V
H. Hold
V. Hold
Height
V. Lin
VHF Antenna Terminal
Antenna Wire
UHF Antenna Terminal
AGC
Contrast
AC Input
JVC
3040

Fig. 2

Instruction for VHF Electronic Tuner

This tuner makes electronically tuning for each channel by new variable capacitance diodes and also changing between low and high channel by new switching diodes.
Therefore the tuner is more reliable than former for unless mechanical movements.

Servicing in the Field

Cleaning the cabinet

Clean the external appearance of cabinet body when necessary, using a clean soft cloth with mild soap. Don't use any solution which contains benzine or petroleum.

Raster Centering

The centering device is 2 magnetic rings located on yoke rear cover. By alternately rotating those 2 magnetic rings, the picture can be properly centered on the screen.

Deflection Yoke Adjustment

If the lines of the raster are not horizontal or corner shadows appear, loosen the yoke clamp screw and rotate deflection yoke, pushing yoke snug up against bell of picture tube.

Vertical Height and Vertical Linearity Adjustments

When the upper or lower part of picture extends or shrinks, adjust the vertical height and vertical linearity controls alternately to fill the screen ¼ inch beyond the mask until the picture on test pattern is symmetrical from top to bottom. The height control extends (or shrinks) mainly a lower part of raster, and the linearity control a upper part.

AGC Adjustment

When picture contrast is too dark or pale in spite of adjusting "VHF Channel Selector" knob and built-in VHF antenna, adjust this knob until picture contrast is at its best.

* In tuning over clockwise this knob, picture is too dark, tremble, or appears a striped pattern in it. And tuning over counter-clockwise, picture is too pale and disappears at last.

Disassembly Instructions

Rear Cover Removal

1. Unfasten 4 screws at the rear side (Fig. 3) and disconnect a connector connected to printed circuit board (Fig. 4).
2. Pull the rear cover backward.

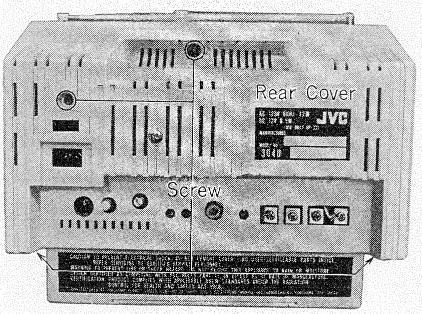

Rear Cover
Screw
JVC
3040

Fig. 3

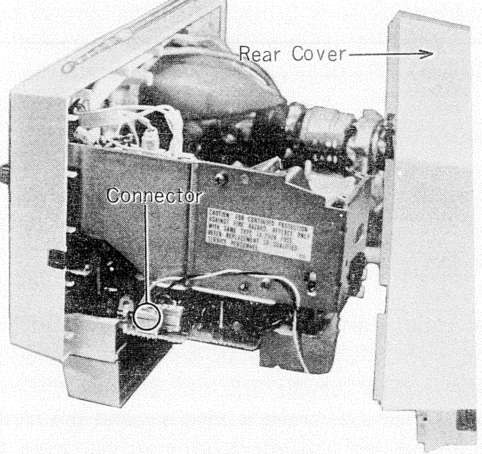


Fig. 4

Printed Circuit Board Removal

1. Pull out a VHF channel selector, a channel changing and a off-volume knobs.
2. Pull out rear cover as instructed in "rear cover removal".
3. Remove anode cap, CRT socket, deflection yoke from the neck of CRT and the wires connected to printed circuit board.
4. Pull out printed circuit board backward.

UHF Tuner & Speaker Removal

1. Pull out a UHF channel selector knob.
2. Pull out rear cover as instructed in "rear cover removal".
3. Unfasten 2 screws fastening tuner bracket (Fig. 5).
4. Pull out UHF tuner with the bracket and the speaker.

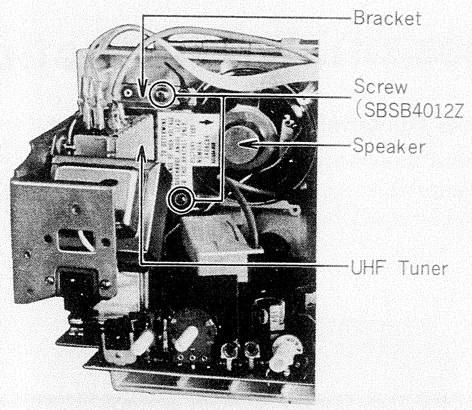


Fig. 5

CRT Removal

1. Pull out rear cover as instructed in "rear cover removal".
2. Pull out printed circuit board as instructed in "printed circuit board".
3. Remove anode cap, CRT socket and deflection yoke from the neck of CRT.
4. Take off 4 nuts fastening CRT.
5. Take off CRT with CRT holder.

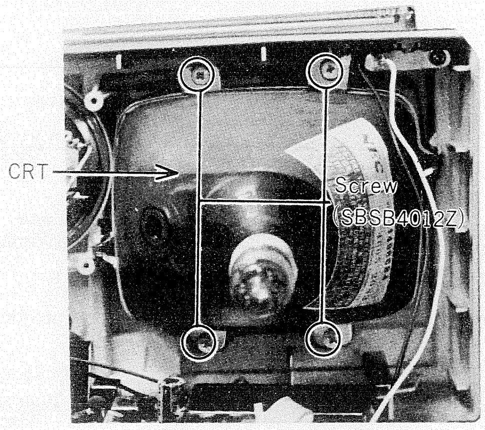


Fig. 6

Alignment Instructions

B Voltage Adjustment

1. Instrument Required
   D.C. Volt-meter with 15V range (0.5 class)
2. Meter Connection
   Connect the Volt-meter between TP-91 and earth.
3. Adjustment
   Under the rated power supply and normal reception, adjust 11.5V ADJ. control (R501) so that the point of the meter indicates +11.5V.

Pix IF & VHF Tuner Alignments

Equipments required

Sweep Signal generator with brightness modulated markers.
frequency range: 30~200MHz
Oscilloscope
Bias power supply for A.G.C.(D.C.3.2V)

Preparations before alignment

Under the rated power supply

1. Apply a bias power supply for A.G.C.---D.C. 3.2V---to TP-14.
2. Connect a vertical input of the oscilloscope through a resistor(15kΩ) to TP-12.

Pix IF Alignment

1. Connect the RF output of the sweep signal generator through a resistor (470Ω) and a ceramic capacitor (2200pF) in series to TP-2.
2. Set "BAND SELECTOR" lever to "Low" position.
3. Set the sweep signal generator to "IF" Ch. and requrate the vertical gain of the oscilloscope so that 1.2Vp-p signal is traced with the length of 10cm on the screen of the scope.
4. Align T1, L101 and T101 alternately so that 36.8MHz marker comes to the top of the wave form.

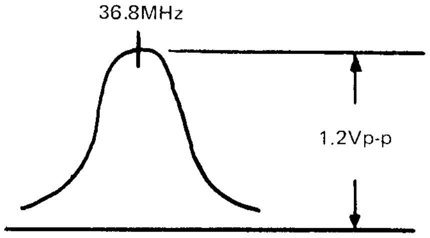


Fig. 7

VHF Tuner Alignment

This alignment must be done after Pix IF was aligned.

1. Connect the RF output of the sweep signal generator to TP-1.
2. Set "BAND SELECTOR" lever to "UHF" position.
3. Set the sweep signal generator to "IF" Ch. and align L11 so that 36.8MHz marker comes to the bottom of the wave form.

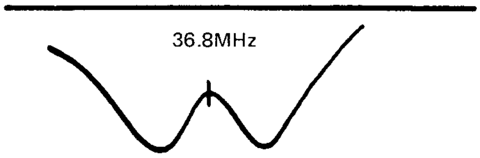


Fig. 8

4. Change "BAND SELECTOR" lever to "LOW" position.
5. Set the sweep signal generator to "3" Ch. and regulate the vertical gain of the scope so that 1.2Vp-p signal is traced with the length of 10cm on the screen of the scope.
6. Align L8 so that 55.25MHz marker comes to the center of the wave form.
7. Align L1 so that 55.25MHz marker position is maximum.
8. Change again "BAND SELECTOR" lever to "HIGH" position.
9. Set the sweep signal generator to "8" Ch. and regulate the output of the scope as stated in the step 5.
10. Align L9 so that 196.25MHz marker comes to the center of the wave form.
11. Align L3 so that 196.25MHz marker position is maximum.
    Repeat the step 3 11.
12. Confirm lastly that when the sweep signal generator is changed channels 2 to 13, the wave form of each channel has no variation.

Sound IF Alignment

Equipments required

Sweep signal generator with brightness modulated markers.
Marker frequencies: 5.5MHz ±100KHz and 6.5MHz ±100KHz.
Oscilloscope
Bias power supply for A.G.C. (D.C. 3.2V)

Preparations before alignment

1. Apply a bias power supply for A.G.C. (D.C. 3.2V) to TP-14.
2. Connect the output of the sweep signal generator to TP-12 through a ceramic capacitor (0.01μF).
3. Connect the input of the oscilloscope to TP-21 through a resistor (10kΩ)

Alignments

Set "TV SOUND" switch to 5.5MHz position.

1. Regulate the output of the sweep signal generator to 80dB (10mV) and then align L201 so that the response of the "S" curve has 5.5MHz marker on the center and are symmetrical from the upper to the lower.

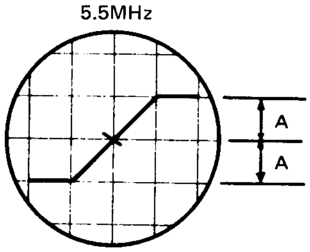


Fig. 9

2. Attenuate the output of the generator to 40dB (100μV) and align T703 as shown in Fig. 10.

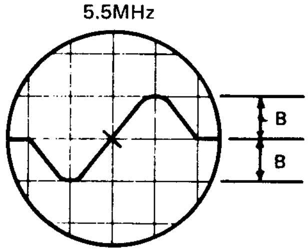


Fig. 10

3. Set "TV SOUND" switch to 6.5MHz position. Regulate the output of the generator to 80dB (10mV) and then align T702 so that the response of the "S" curve has 6.5MHz marker on the center and symmetrical from the upper to the lower.

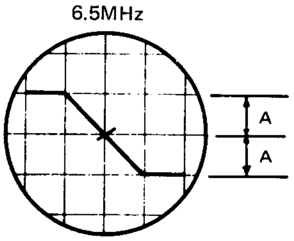


Fig. 11

4. Attenuate the output of the generator to 40dB (100μV) and align T701 as shown in Fig. 12

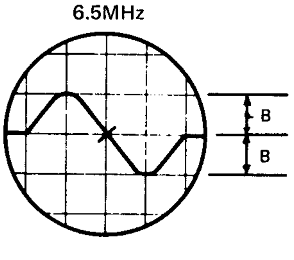


Fig. 12

Mechanical Parts Diagram

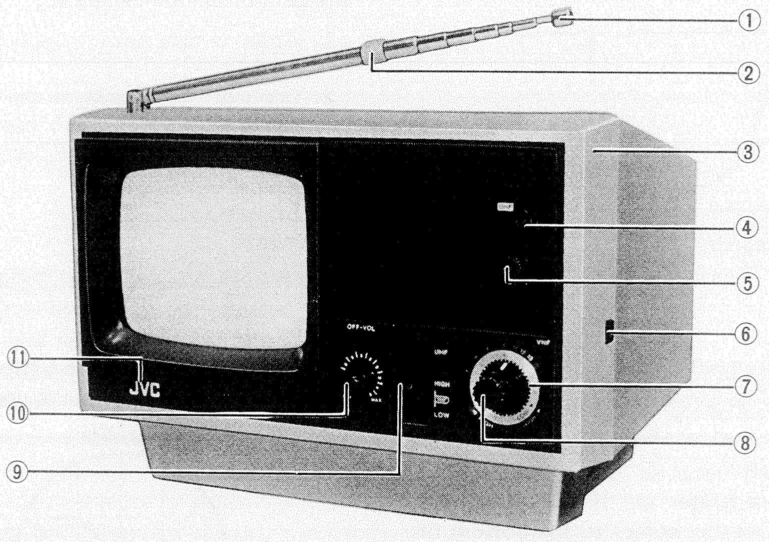

①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
OFF-VOL
UHF
VHF
HIGH
LOW
JVC

Fig. 13

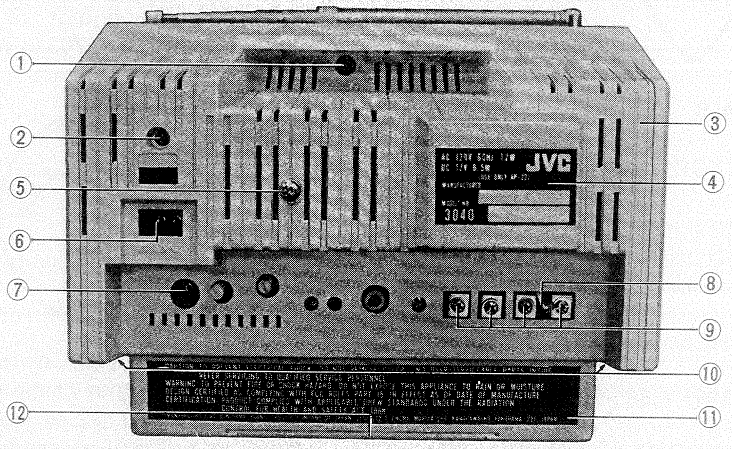

①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
JVC
3040

Fig. 14

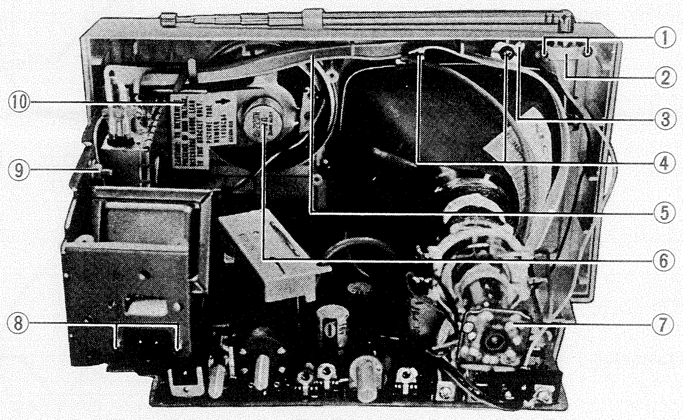

①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

Fig. 15

(Refer to Fig. 13)

No.	Parts Name	Parts No.	Q'ty
1	Rod Antenna	QZR4147-001U	1
2	Insulator Tube	A45287-001	1
3	Front Panel (Red)	A10323-001	1
	〃 (Ivory)	A10323-004	1
	〃 (H. Gold)	A10323-010	1
4	UHF Indicator Knob	A31896-00C	1
5	UHF Knob	A45517-001	1
6	Earphone Jack Ass'y J6	QMS3551-001	1
7	Indicator Plate	A31897-002	1
8	VHF Knob	A45518-001	1
9	Lever Knob	A45515-001	1
10	Switch Knob	A45516-001	1
11	Mark	A45521-017	1

(Refer to Fig. 14)

No.	Parts Name	Parts No.	Q'ty
1	Tap Screw	SBSB3025Z	1
2	Tap Screw	SBSB3012Z	1
3	Rear Cover (Ivory)	A10324-007	1
	〃 (Red)	A10324-008	1
	〃 (H. Gold)	A10324-009	1
4	Rating Label	A31688-017	1
5	Tap Screw	GBSB4016R	1
6	AC Socket Ass'y J5	QMC0262-001	1
	Cap Ass'y	V44399-00D	1
7	Ext. Battery Jack Ass'y J4	QMA1221-002	1
8	Wire with Lug	A04146-A-9-30	1
9	Antenna Terminal	A45520-00A	4
10	Tap Screw	SBSB3025Z	2
11	Label	A31694-079	1
12	Battery Cover (Ivory)	A31895-003	1
	〃 (Red)	A31895-002	1
	〃 (H. Gold)	A31895-004	1

(Refer to Fig. 15)

No.	Parts Name	Parts No.	Q'ty
1	Tap Screw	GBSB3012Z	2
2	Spring	A44799-001	1
3	Wire Clamp	55234-006	1
4	Tap Screw	SBSB4012Z	4
5	Twin Wire Ass'y	A04144-50-L	1
6	Speaker	SK2120TM	1
7	CRT Socket Ass'y	A44397-B	1
8	Ass'y Screw	LPSP2610Z	2
9	Ass'y Screw	LPSP4012ZS	2
	Nut	NNZ4000ZS	2
	Washer	Q03091-110	2
10	Label	A31694-059	1

Mechanical Parts Diagram

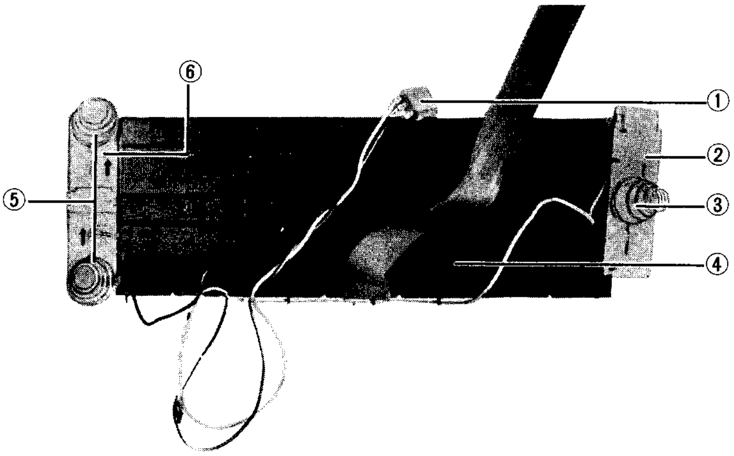


Fig. 16

No.	Parts Name	Parts No.	Q'ty
1	Socket Ass'y (J2)	QMC0357-001	1
2	Battery Plate	A45514-001	1
3	Contact Spring	A45513-001	1
4	Battery Spacer (with ribbon)(Ivory)	A31916-00B	1
	〃 (〃)(Red, H. Gold)	A31916-00A	1
5	Contact Spring	A45513-001	2
6	Battery Plate	A45514-001	1

Packing

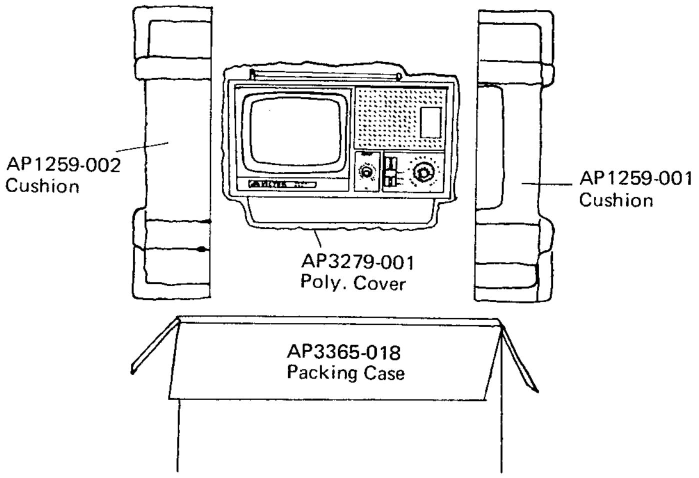

AP1259-002
Cushion
AP1259-001
Cushion
AP3279-001
Poly. Cover
AP3365-018
Packing Case

Fig. 17

Parts Arrangement on the Face of Printed Circuit Board

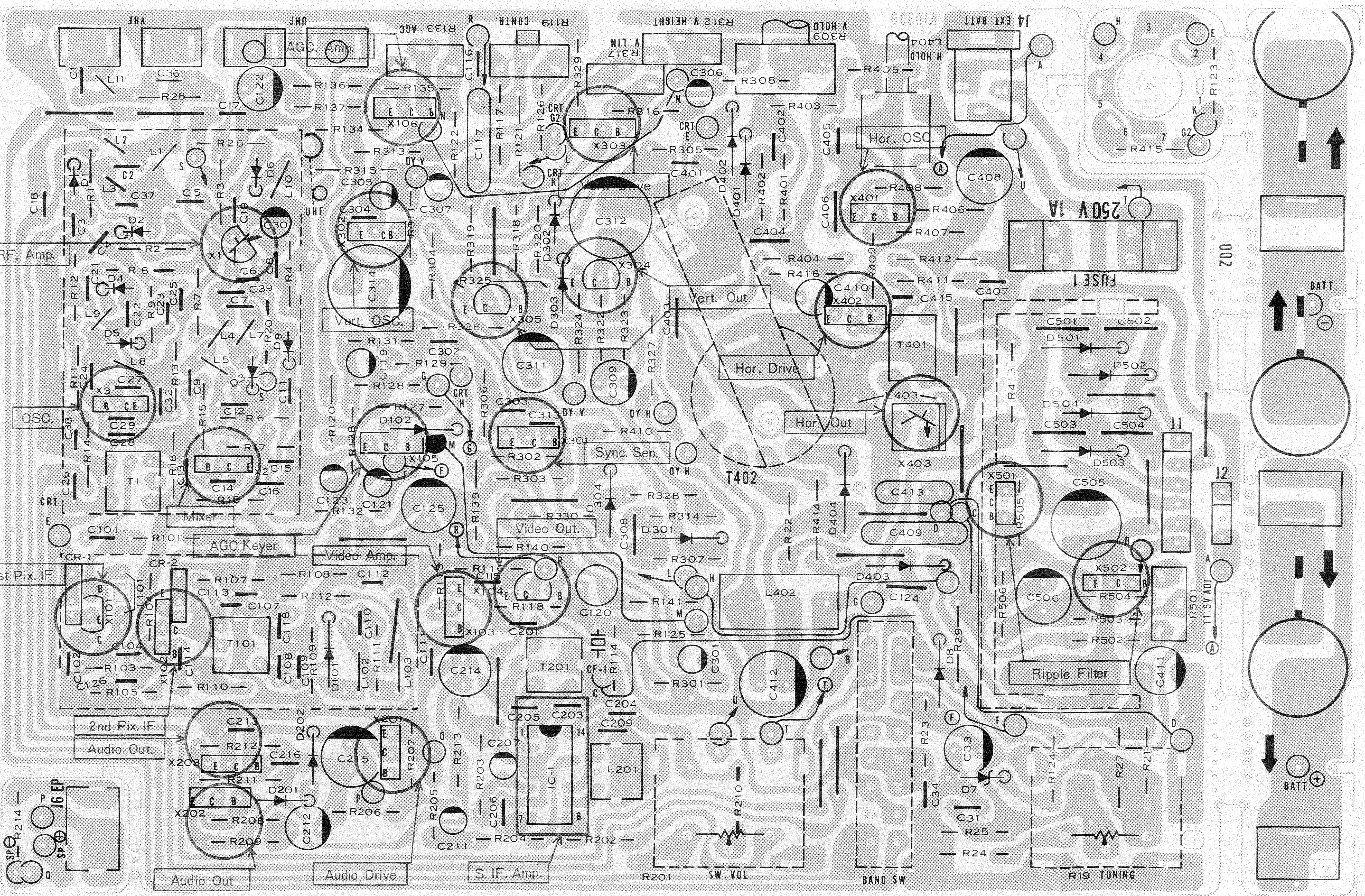

VHF
UHF
AGC. Amp.
R133 AGC
R119 CONTR.
R312 V.HEIGHT
R317 V.LIN
R309 V.HOLD
L404 H.HOLD
J4 EXT. BATT
RF. Amp.
OSC.
Mixer
1st Pix. IF
2nd. Pix. IF
Audio Out.
Audio Out
Audio Drive
S. IF. Amp.
Video Amp.
AGC Keyer
Video Out.
Sync. Sep.
Vert. OSC.
Vert. Drive
Vert. Out
Hor. Drive
Hor. Out
Hor. OSC.
Ripple Filter
FUSE 1
250V 1A
CR-1
CR-2
X1
X2
X3
X101
X102
X103
X104
X105
X106
X201
X202
X203
X301
X302
X303
X304
X305
X401
X402
X403
X501
X502
T1
T101
T201
T401
T402
L402
L201
IC-1
CF-1
SW. VOL
BAND SW
R19 TUNING
R201
R210
J6 EP
SP
J1
J2
11.5V ADJ
BATT.
CRT
DY V
DY H

Fig. 18

Parts Arrangement on the Reverse of Printed Circuit Board

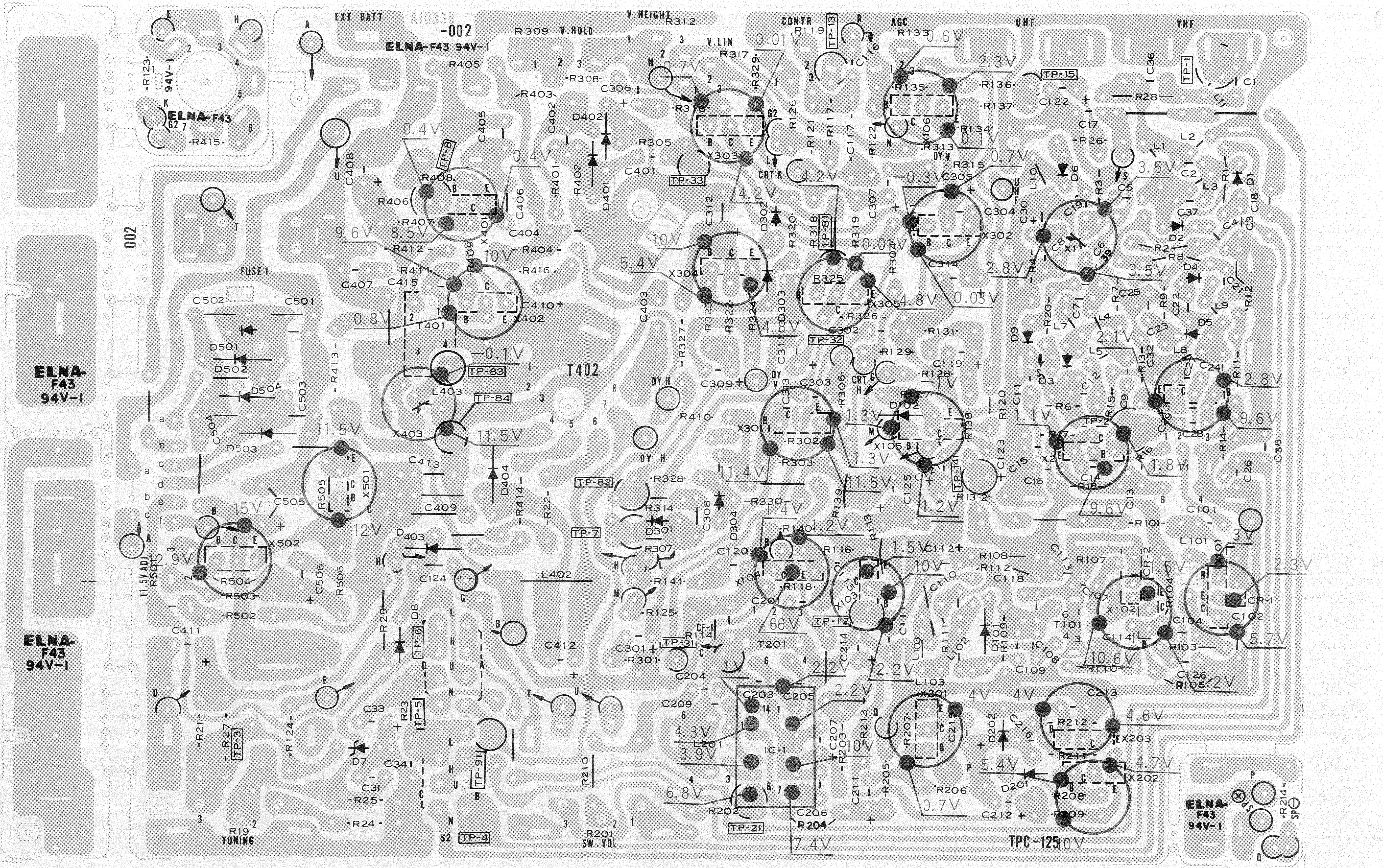

EXT BATT
A10339
-002
ELNA-F43 94V-1
V.HEIGHT
R312
R309 V.HOLD
V.LIN
R317
CONTR
R119
TP-13
AGC
R133
UHF
VHF
TP-1
TP-15
C36
C1
R28
R405
R308
R403
C306
D402
R316
X303
R305
C401
TP-33
TP-8
R408
R406
R407
X401
C404
C405
C402
C406
R401
R402
D401
R412
R404
R411
R416
R409
C407
C415
C410
X402
T401
TP-83
TP-84
L403
X403
T402
C413
C409
D404
R414
R22
TP-82
TP-7
D403
C124
L402
FUSE 1
C502
C501
D501
D502
D504
D503
C503
C504
R413
X501
R505
C505
X502
R504
R503
R502
R501
11.5V ADJ
C506
R506
C411
ELNA-F43 94V-1
002
R123
ELNA-F43
R415
TUNING
R19
R21
R27
TP-3
R124
D7
C341
C31
R25
R24
C33
R23
TP-5
R29
D8
TP-6
TP-91
C412
S2
TP-4
R210
R201
SW.VOL.
C312
X304
R323
R322
R324
D303
D302
R320
R318
TP-81
R319
R325
X305
R326
C302
TP-32
C403
R327
C311
C309
C303
X301
R302
R303
R306
R328
R314
D301
R307
R141
R125
R330
C308
D304
R140
C120
X104
R118
R116
R113
R139
C20
CF-1
R114
TP-31
C301
R301
C204
T201
C203
C205
C209
IC-1
L201
C207
R203
R202
TP-21
C206
R204
C214
TP-12
X103
C11
L103
C125
C112
C110
R126
R121
R117
C117
R122
R135
R136
R137
R134
X106
R313
R315
C305
C304
X302
C314
R304
C307
R131
R129
C119
R128
R127
D102
X105
R138
TP-14
R132
C123
C15
C16
R120
C122
C17
R26
C5
C2
L3
R1
D1
C18
C3
C37
C4
D2
R2
R8
D4
C21
R12
C19
C8
X1
C6
C39
R3
R4
C25
R7
R9
C22
L9
D5
L6
L10
D6
L2
L1
D9
R20
L7
C7
L4
L5
D3
C12
R13
C32
C23
L8
C24
C241
R11
X3
R6
R15
C9
TP-2
X2
R17
R16
C14
R18
C13
C28
R14
C26
C38
C101
L101
R101
X101
CR-1
C102
R108
R112
C118
R107
C113
C107
CR-2
R104
X102
C104
C114
T101
R103
C126
R105
C108
C109
R110
D101
R109
R111
L102
X201
C213
R212
X203
C215
R207
R213
R205
C211
D202
C216
R206
D201
X202
R211
R208
R209
C212
TPC-125
R214
SP
0.01V
0.7V
0.6V
2.3V
0.1V
0.7V
0.4V
0.4V
4.2V
4.2V
-0.3V
3.5V
9.6V
8.5V
10V
10V
5.4V
0.01V
2.8V
3.5V
0.8V
-0.1V
4.8V
4.8V
0.03V
2.1V
11.5V
11.5V
1.3V
1.3V
1V
2.8V
9.6V
1.1V
1.8V
11.4V
11.5V
1.2V
9.6V
15V
12V
12.9V
1.4V
1.2V
1.5V
10V
1.5V
3V
2.3V
66V
2.2V
2.2V
2.2V
10.6V
5.7V
2V
4V
4V
4.6V
4.7V
4.3V
3.9V
10V
5.4V
6.8V
0.7V
7.4V
10V

Fig. 19

Television Schematic Diagram Model 3040EUC

NOTES

1. ALL DC VOLTAGES ARE MEASURED WITH VOLTMETER (INTERNAL RESISTANCE : 20 KΩ/V) ON NORMAL RECEPTION. UNSPECIFIED PORARITY IS POSITIVE.
2. ALIGNMENT
   USER CONTROL ——— SERVICEMAN CONTROL ———
3. ALL RESISTORS ARE CARBON RESISTOR 1/4 WATT ±10% TOLERANCE, EXCEPT WHERE OTHERWISE INDICATED. RESISTOR VALUES ARE IN "OHM". ($K=10^3$, $M=10^6$)
   MFR: METAL FILM RESISTOR ±5% TOLERANCE
   COMP: COMPOSITION RESISTOR ±10% TOLERANCE
4. ALL CAPACITORS ARE CERAMIC CAPACITORS ±5% TOLERANCE 50wv, EXCEPT WHERE OTHERWISE INDICATED.
   P.P: POLYPROPYLENE CAPACITOR ±10% TOLERANCE 400wv
   MY: MYLAR CAPACITOR ±10% TOLERANCE 50wv
   TA: TANTALUM ELECTROLYTIC CAPACITOR ±10% TOLERANCE 20wv
   NP: NON POLARIZED ELECTROLYTIC CAPACITOR ±20% TOLERANCE 25wv
   Δ: CERAMIC CAPACITOR 1000PF $^{+80}_{-20}$% TOLERANCE 50wv
   (P): CERAMIC CAPACITOR $^{+100}_{-0}$% TOLERANCE
   (Z): CERAMIC CAPACITOR $^{+80}_{-20}$% TOLERANCE
   CH: TOLERANCE FOR TEMPERATURE COEFFICIENT IS $\pm 60 \times 10^{-6}$/°C
   B: TOLERANCE FOR TEMPERATURE COEFFICIENT IS ±10%
   CAPACITOR VALUES GREATER THAN 1 ARE IN "PF". THOSE 1 AND LESS ARE IN "μF", UNLESS OTHERWISE DESIGNATED.
   RATING OF ELECTROLYTIC CAPACITORS ARE INDICATED BY "CAPACITANCE (μF)/VOLTAGE (wv)".
   TOLERANCE OF ELECTROLYTIC CAPACITOR VALUES GREATER THAN 4.7μF ARE $^{+50}_{-10}$%. THOSE 4.7μF AND LESS ARE $^{+75}_{-10}$% UNLESS OTHERWISE INDICATED.

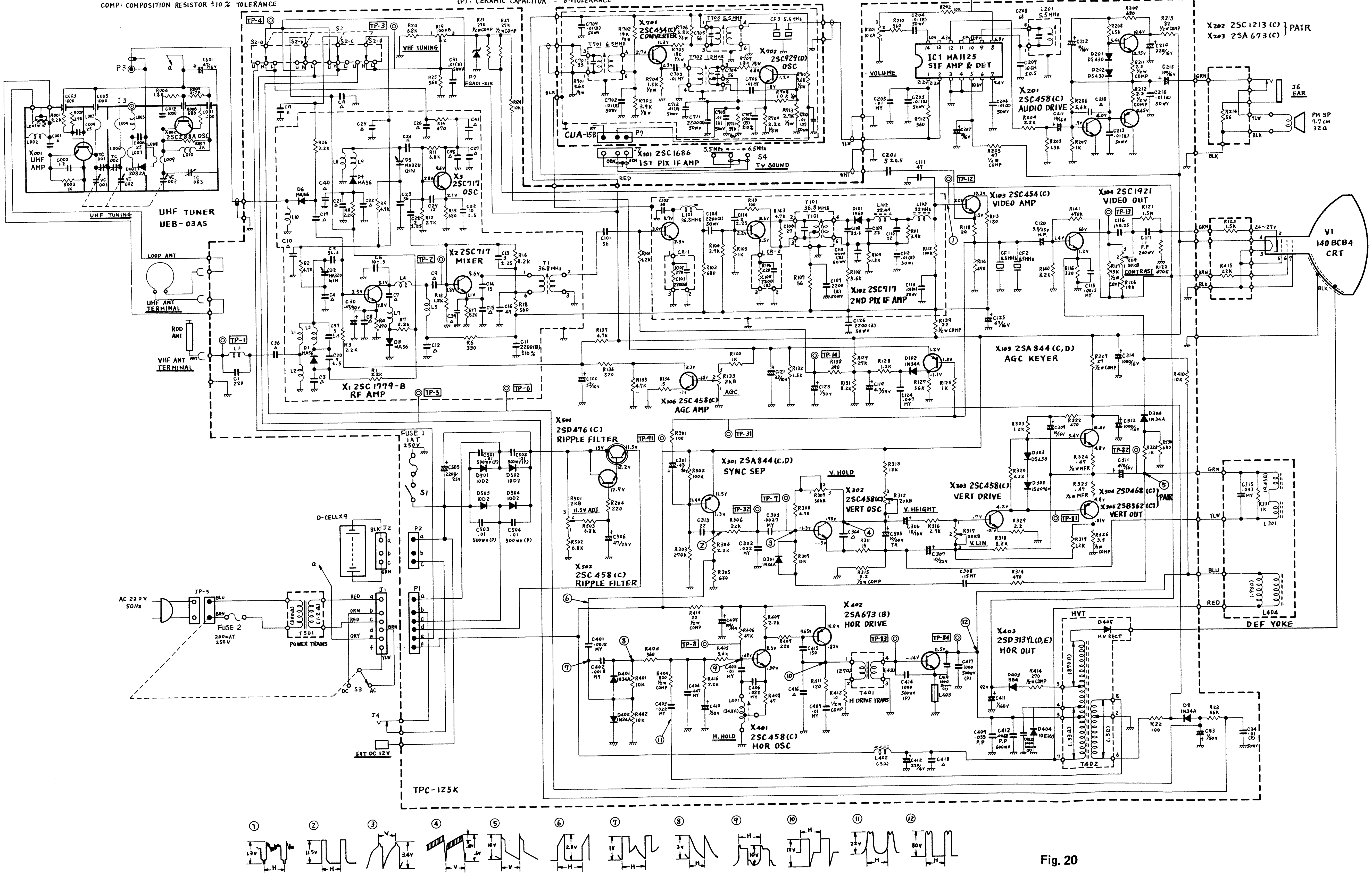

X202 2SC1213(C)
X203 2SA673(C)
PAIR
UHF TUNER
UEB-03AS
X001 UHF AMP
X002 2SC288A OSC
UHF TUNING
VHF TUNING
LOOP ANT
UHF ANT TERMINAL
ROD ANT
VHF ANT TERMINAL
X1 2SC1779-B RF AMP
X2 2SC717 MIXER
X3 2SC717 OSC
X701 2SC454(C) CONVERTER
X702 2SC929(D) OSC
CUA-15B
X101 2SC1686 1ST PIX IF AMP
TV SOUND
IC1 HA1125 SIF AMP & DET
VOLUME
X201 2SC458(C) AUDIO DRIVE
J6 EAR
PM SP 7.7cm 32Ω
X102 2SC717 2ND PIX IF AMP
X103 2SC454(C) VIDEO AMP
X104 2SC1921 VIDEO OUT
CONTRAST
V1 140BCB4 CRT
X105 2SA844(C,D) AGC KEYER
X106 2SC458(C) AGC AMP
AGC
X501 2SD476(C) RIPPLE FILTER
X502 2SC458(C) RIPPLE FILTER
11.5V ADJ
X301 2SA844(C,D) SYNC SEP
V. HOLD
X302 2SC458(C) VERT OSC
V. HEIGHT
V. LIN
X303 2SC458(C) VERT DRIVE
X304 2SD468(C)
X305 2SB562(C)
VERT OUT
DEF YOKE
X402 2SA673(B) HOR DRIVE
X401 2SC458(C) HOR OSC
H. HOLD
T401 H DRIVE TRANS
X403 2SD313YL(D,E) HOR OUT
HVT
D405 HV RECT
T402
FUSE 1 1AT 250V
S1
D-CELL×9
AC 220V 50Hz
JP-5
FUSE 2 200mAT 250V
T501 POWER TRANS
S3 DC AC
J4
EXT DC 12V
TPC-125K
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫

Fig. 20

Block Diagram

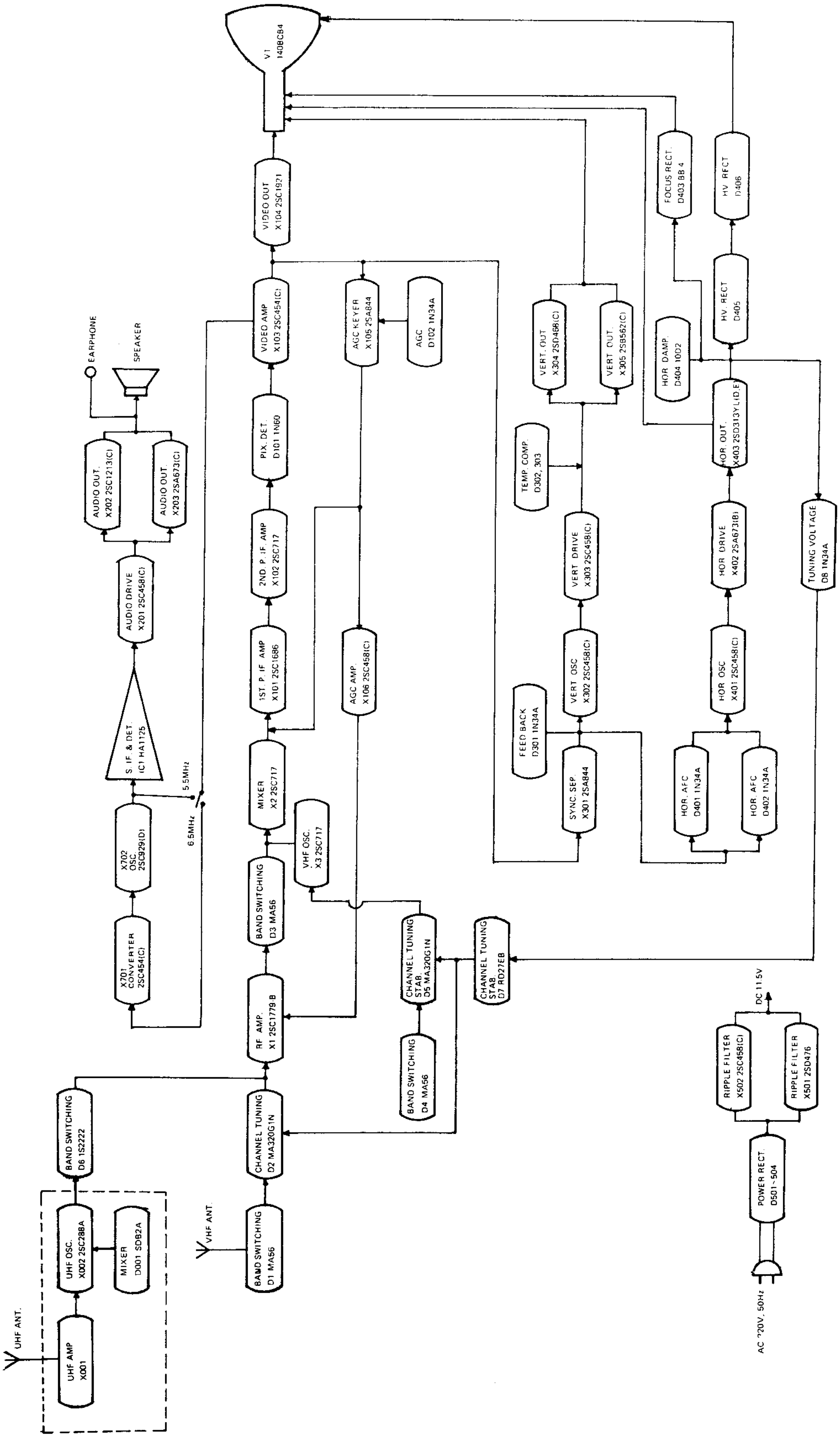

VT
1408CB4
VIDEO OUT
X104 2SC1921
VIDEO AMP
X103 2SC454(C)
PIX. DET.
D101 1N60
2ND. P. IF. AMP
X102 2SC717
1ST. P. IF AMP
X101 2SC1686
MIXER
X2 2SC717
VHF OSC.
X3 2SC717
BAND SWITCHING
D3 MA56
RF AMP.
X1 2SC1779-B
CHANNEL TUNING
D2 MA320G1N
BAND SWITCHING
D1 MA56
VHF ANT.
BAND SWITCHING
D6 1S2222
UHF OSC.
X002 2SC288A
MIXER
D001 SDB2A
UHF AMP
X001
UHF ANT.
AGC KEYER
X105 2SA844
AGC
D102 1N34A
AGC AMP.
X106 2SC458(C)
CHANNEL TUNING
STAB.
D5 MA320G1N
BAND SWITCHING
D4 MA56
CHANNEL TUNING
STAB.
D7 RD27EB
EARPHONE
SPEAKER
AUDIO OUT.
X202 2SC1213(C)
AUDIO OUT.
X203 2SA673(C)
AUDIO DRIVE
X201 2SC458(C)
S. IF. & DET.
IC1 HA1125
5.5MHz
6.5MHz
X702
OSC.
2SC929(D)
X701
CONVERTER
2SC454(C)
VERT. OUT
X304 2SD468(C)
VERT. OUT.
X305 2SB562(C)
TEMP. COMP.
D302, 303
VERT DRIVE
X303 2SC458(C)
VERT OSC
X302 2SC458(C)
FEED BACK
D301 1N34A
SYNC. SEP.
X301 2SA844
FOCUS RECT.
D403 BB 4
HV. RECT
D406
HV. RECT
D405
HOR. DAMP.
D404 10D2
HOR. OUT.
X403 2SD313YL(D,E)
HOR DRIVE
X402 2SA673(B)
HOR OSC
X401 2SC458(C)
HOR. AFC
D401 1N34A
HOR. AFC
D402 1N34A
TUNING VOLTAGE
D8 1N34A
DC 11.5V
RIPPLE FILTER
X502 2SC458(C)
RIPPLE FILTER
X501 2SD476
POWER RECT.
D501~504
AC 220V, 50Hz

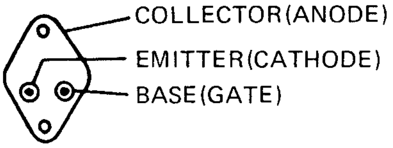
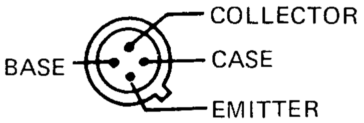
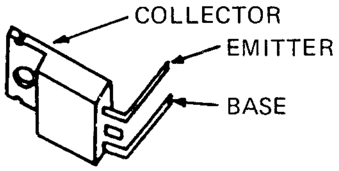
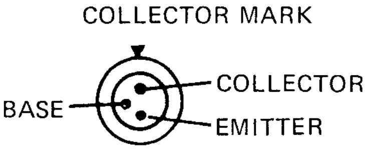
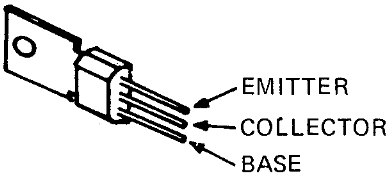
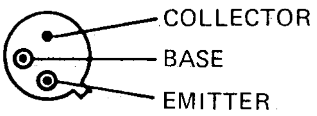
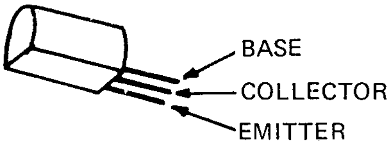
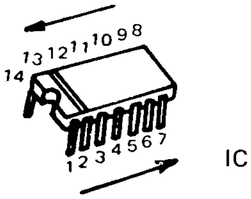
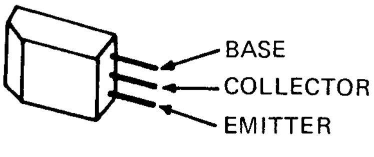
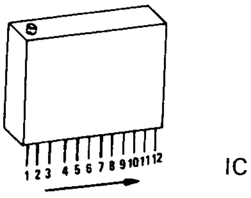
Fig. 21

Electronic Parts List

Symbol No.	Parts No.	Description
	Transistors	
X1	2SC1779-B	RF. Amp.
X2	2SC717	Mixer
X3	2SC717	Oscillator
X101	2SC1686	1st. Pix. IF Amp.
X102	2SC717	2nd. Pix. IF Amp.
X103	2SC454(C)	Video Amp.
X104	2SC1921	Video Output
X105	2SA844(C,D)	AGC Keyer
X106	2SC458(C)	AGC Amp.
X201	2SC458(C)	Audio Driver
X202	2SC1213(C) } Pair	Audio Output
X203	2SA673(C)	Audio Output
X301	2SA844(C,D)	Sync. Sep.
X302	2SC458(C)	Vert. Oscillator
X303	2SC458(C)	Vert. Drive
X304	2SD468(C) } Pair	Vert. Output
X305	2SB562(C)	Vert. Output
X401	2SC458(C)	Hor. Oscillator
X402	2SA673(B)	Hor. Drive
X403	2SD313YL(D,E)	Hor. Output
X501	2SD476(C)	Ripple Filter
X502	2SC458(C)	Ripple Filter
	IC	
IC1	HA1125	S. IF Amp. & Det.
	CRT	
V1	140BCB4	Picture Tube
	Diodes	
D1,3,4,6	MA56	Band Switch Diode
D2,5	MA320G1N	Variable Capacitance Diode
D7	A04344-021	Zener Diode
D8,102,301, 304,401,402	1N34ATF1	Diode
D101	1N60TF1	Diode
D201,202,303	DS430	Diode
D302	1S2076V	Diode
D403	BB-4	Silicon Power Diode
D404	10E2(V)	Silicon Power Diode
D501~504	A04331-023	Silicon Power Diode (10D2)
	Tuner	
	UEB-03AS	UHF Tuner
	Coils & Transformers	
L1	A44900-29-2	RF. Coil
L2	A44900-17-1	RF. Coil
L3	A44899-7-2	RF. Coil
L4	A44900-11-1	RF. Coil
L5	A44900-31-5	RF. Coil
L7	A44900-15-2	RF. Coil
L8	A44900-23-1	RF. Coil
L9	A44899-5-5	RF. Coil
L10	A44900-31-5	RF. Coil
L11	A44900-13-5	RF. Coil
L101	A45412-00B	2nd. Pix. IF Coil
L102	A04725-22	Peaking Coil
L103	A04872-82	Peaking Coil
L201	A44894-00B	Sound Det. Coil Ass'y
L301,404	A31654-00A	Deflection Yoke Ass'y
L401	A44897-00A	Hor. Osc. Coil Ass'y
L402	A42079	Choke Coil
L403	A04354-001	Choke Coil
T1	A45639-00B	Conv. Trans. Ass'y
T101	A45381-00C	Pix. IF Trans. Ass'y
T401	A45592-00A	Hor. Drive Trans. Ass'y
T402	A31917-00AH	HV. Trans. Ass'y
T501	A45594-00H	Power Trans. Ass'y
	Variable Resistors	
R19	QVB7A2B-015	VHF Tuning (100kΩB)
R119	QVZ3233-054	Contrast (50kΩB)
R133	QVP2A0B-023	AGC (2kΩB)
R201,S1	QVB7R2A-014	Switch-Volume (10kΩA)
R309	A04337-054	V. Hold (50kΩB)
R312	QVP2A0B-024	Vert. Height (20kΩB)
R317	QVP2A0B-024	Vert. Lin. (20kΩB)
R501	QVP2A0B-023	11.5V Adjust (2kΩB)
	Resistors (Power & Special)	
R324,325	QRX125J-R47	Metal Film Resistor
	Electrolytic Capacitors	
C30,301	QEW61HA-474	0.47μF 50WV
C33,123,410	QEW61HA-105	1μF 50WV
C119	QEW61EA-475	4.7μF 25WV
C120	QEN61EA-335	3.3μF 25WV
C121,122	QEW61AA-336	33μF 10WV
C125	QEW61CA-476	47μF 16WV
C207,211,212, 306,309	QEW61CA-106	10μF 16WV
C214	QEW61CA-227	220μF 16WV
C215,408	QEW61CA-107	100μF 16WV
C305	QEE51DK-106	10μF 20WV (Tantal Elect. Cap.)
C307	QEW61EA-106	10μF 25WV
C311	QEW61CA-477	470μF 16WV
C312,314,412	QEW61CA-108	1000μF 16WV
C411	QEW62CA-105	1μF 160WV
C505	QEW61EA-228	2200μF 25WV
C506	QEW61EA-476	47μF 25WV
C601	QEW41CA-476	47μF 16WV
	Polypropylene Capacitors	
C117	QFP32DK-104	0.1μF 200WV
C409	QFP32GK-333	0.033μF 400WV
C413	QFP32XK-682	0.01μF 600WV
	C.R. Blocks	
CR1	A03008-019	R102,C103
CR2	A03008-013	R106,C105
	Speaker	
	SK2120TM	7.7cm 32Ω
	Sockets, Jacks & Plugs	
J1	QMC0657-001	Socket Ass'y
J2	QMC0357-001	Socket Ass'y
J4	QMA1221-002	Ext. Battery Jack Ass'y
J5	QMC0262-001	AC Socket Ass'y
J6	QMS3551-001	Earphone Jack Ass'y
J7	QMC0357-001	Socket Ass'y
	A44397-B	CRT Socket Ass'y
P1	QMC0627-001	Plug Ass'y
P2	QMC0327-001	Plug Ass'y
P3	A41267-B	Plug Ass'y

Symbol No.	Parts No.	Description
Miscellaneous		
CF-1	A04306 00B	Ceramic Filter
CF-2	A04306-00D	Ceramic Filter
	A04144-50-L	Twin Wire Ass'y (for Ant.)
S2	A03068-00A	Lever Switch
S3	QSS2228-102	Slide Switch
Fuse 1	QMF51A2-1R0	Fuse (250V/1A)
	A44594-001	Contact Clip (for Fuse)
	AP3365-018	Packing Case
	A31284-B	UHF Loop Antenna
	QMP3950-183	Power Cord with Plug (1.8m)
	A31694-050	Label (for Power Cord)
	QME1308-004	Earphone Ass'y (1.8m)
	AN1258-001E	Instruction Book
	BT-20022B	Warranty Card
	BT-20017	Safety Tips
	BT-20023	Service Procedure Card
	BT-20024	Special Reply Card

Basing of Transistor

VIEW	VIEW
 COLLECTOR(ANODE) EMITTER(CATHODE) BASE(GATE)	 COLLECTOR BASE CASE EMITTER
 COLLECTOR EMITTER BASE	 COLLECTOR MARK COLLECTOR BASE EMITTER
 EMITTER COLLECTOR BASE	 COLLECTOR BASE EMITTER
 BASE COLLECTOR EMITTER	 13 12 11 10 9 8 14 1 2 3 4 5 6 7 IC
 BASE COLLECTOR EMITTER	 1 2 3 4 5 6 7 8 9 10 11 12 IC

Accessories

	Q'ty
UHF Loop Antenna	1
Earphone Ass'y	1
Instruction Card	1
Schematic Diagram	1
Power Cord with Plug	1

Requirement to Customers

To ensure prompt supply of service parts, list part number, part name, and model number when you order.

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